def calculate\_us\_tax\_2025(income, filing\_status):

# Define 2025 tax brackets

brackets = {

'single': [

(0, 11600, 0.10),

(11601, 47150, 0.12),

(47151, 100525, 0.22),

(100526, 191950, 0.24),

(191951, 243725, 0.32),

(243726, 626350, 0.35),

(626351, float('inf'), 0.37)

],

'married': [

(0, 23200, 0.10),

(23201, 94300, 0.12),

(94301, 201050, 0.22),

(201051, 383900, 0.24),

(383901, 487450, 0.32),

(487451, 751600, 0.35),

(751601, float('inf'), 0.37)

]

}

if filing\_status not in brackets:

raise ValueError("Invalid filing status. Choose 'single' or 'married'.")

tax = 0

for lower, upper, rate in brackets[filing\_status]:

if income > upper:

tax += (upper - lower + 1) \* rate

else:

tax += (income - lower + 1) \* rate

break

return round(tax, 2)

# Example usage

income = 85000

print("2025 Tax (Single): $", calculate\_us\_tax\_2025(income, 'single'))

print("2025 Tax (Married): $", calculate\_us\_tax\_2025(income, 'married'))